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JC13

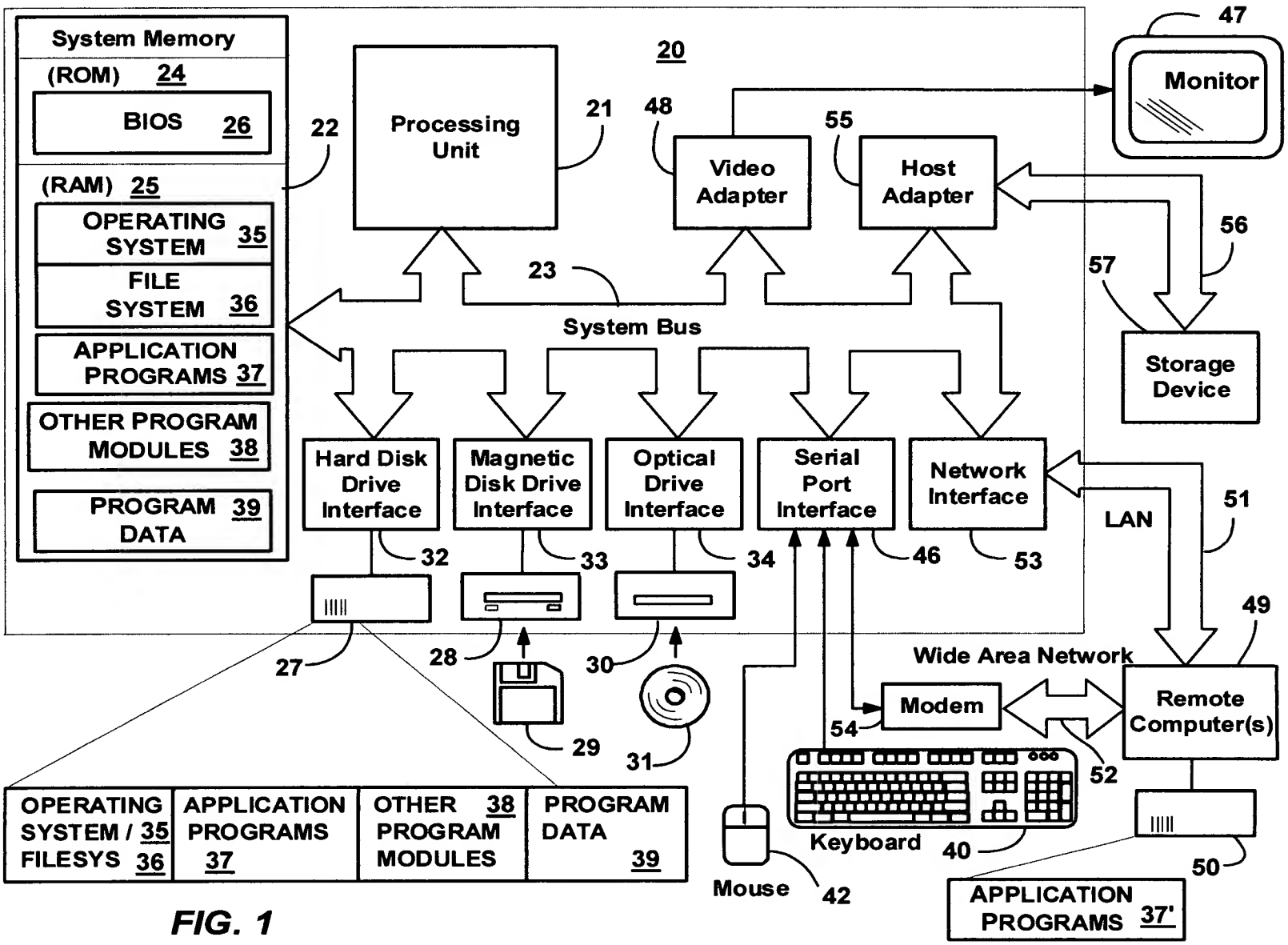
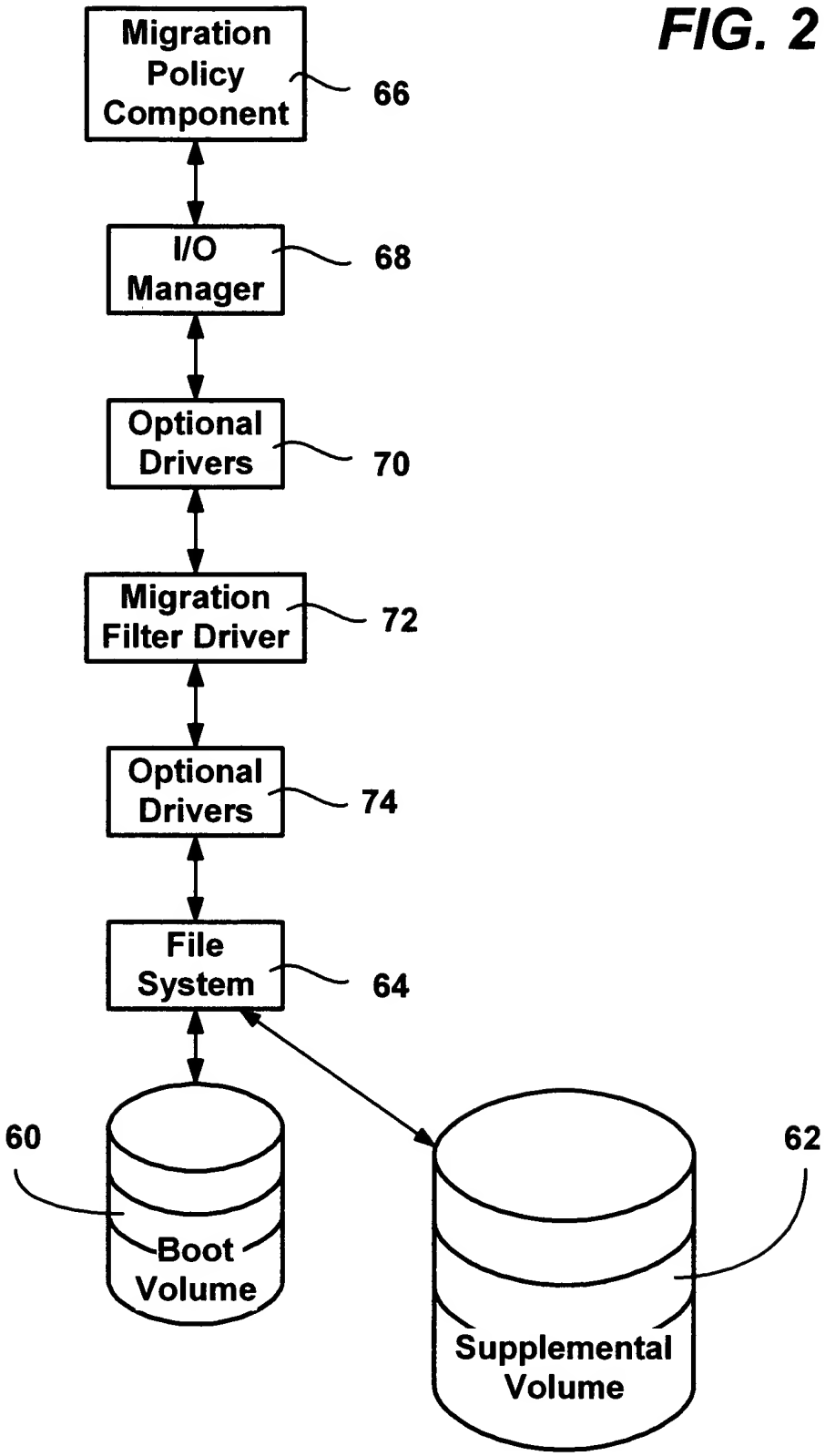


FIG. 1

FIG. 2


Migration Policy Component
66
I/O Manager
68
Optional Drivers
70
Migration Filter Driver
72
Optional Drivers
74
File System
64
60
Boot Volume
62
Supplemental Volume

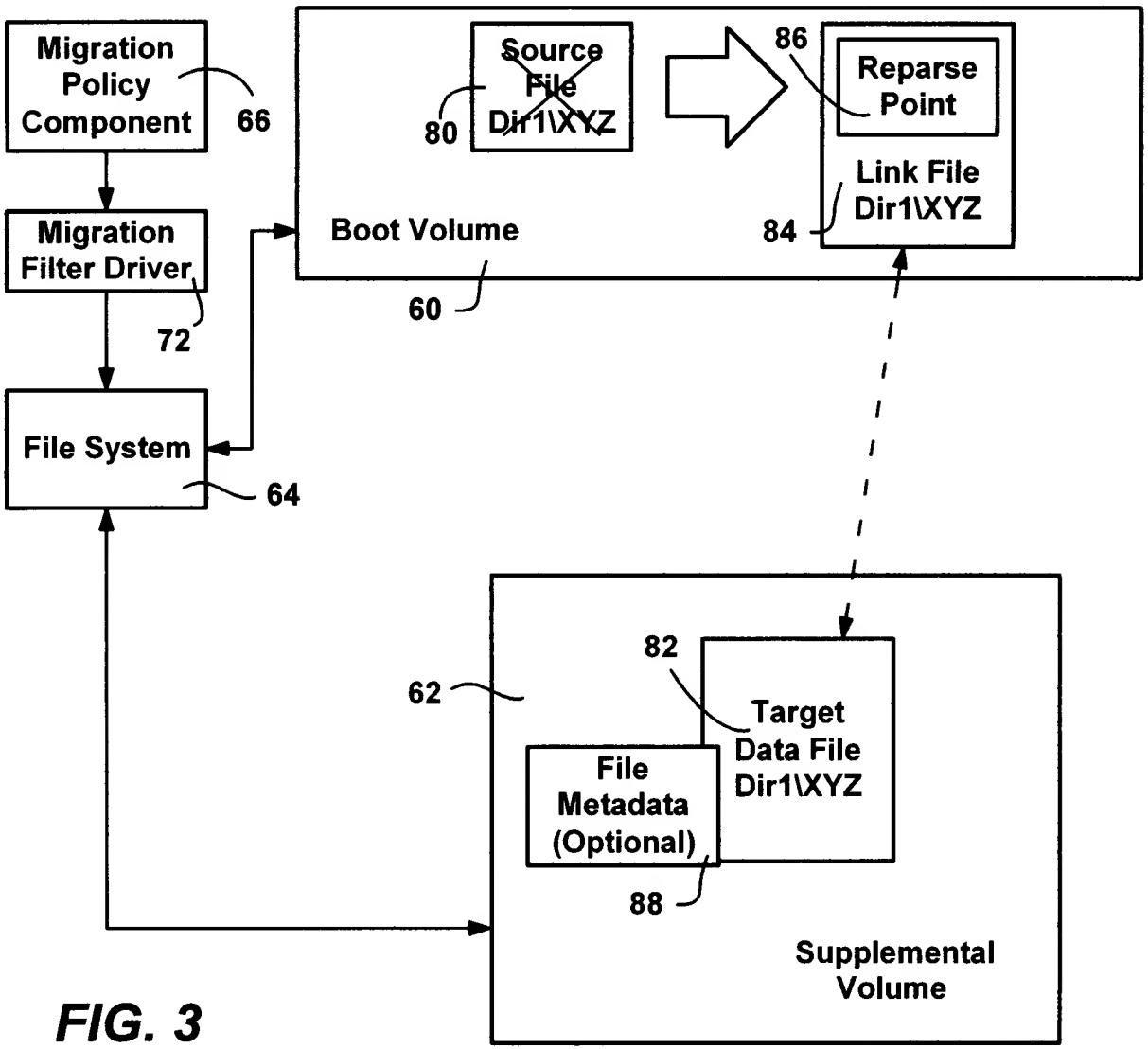

Migration Policy Component
66
Migration Filter Driver
72
File System
64
Source File Dir1\XYZ
80
86
Reparse Point
Link File Dir1\XYZ
84
Boot Volume
60
62
82
Target Data File Dir1\XYZ
File Metadata (Optional)
88
Supplemental Volume

FIG. 3

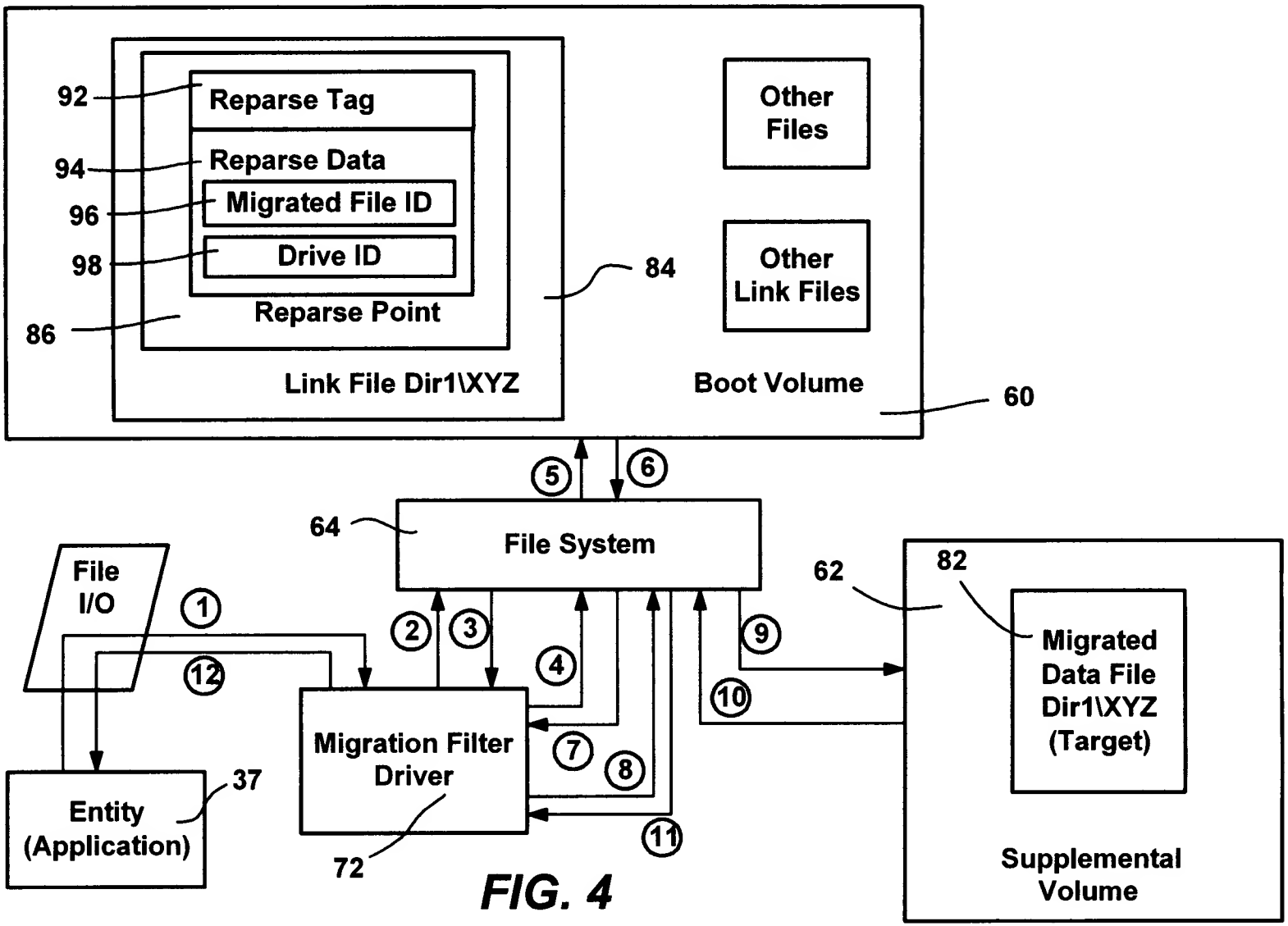

92
Reparse Tag
94
Reparse Data
96
Migrated File ID
98
Drive ID
Reparse Point
86
Link File Dir1\XYZ
84
Other Files
Other Link Files
Boot Volume
60
5
6
64
File System
File I/O
1
2
3
4
12
Migration Filter Driver
72
7
8
11
Entity (Application)
37
9
10
62
82
Migrated Data File Dir1\XYZ (Target)
Supplemental Volume

FIG. 4

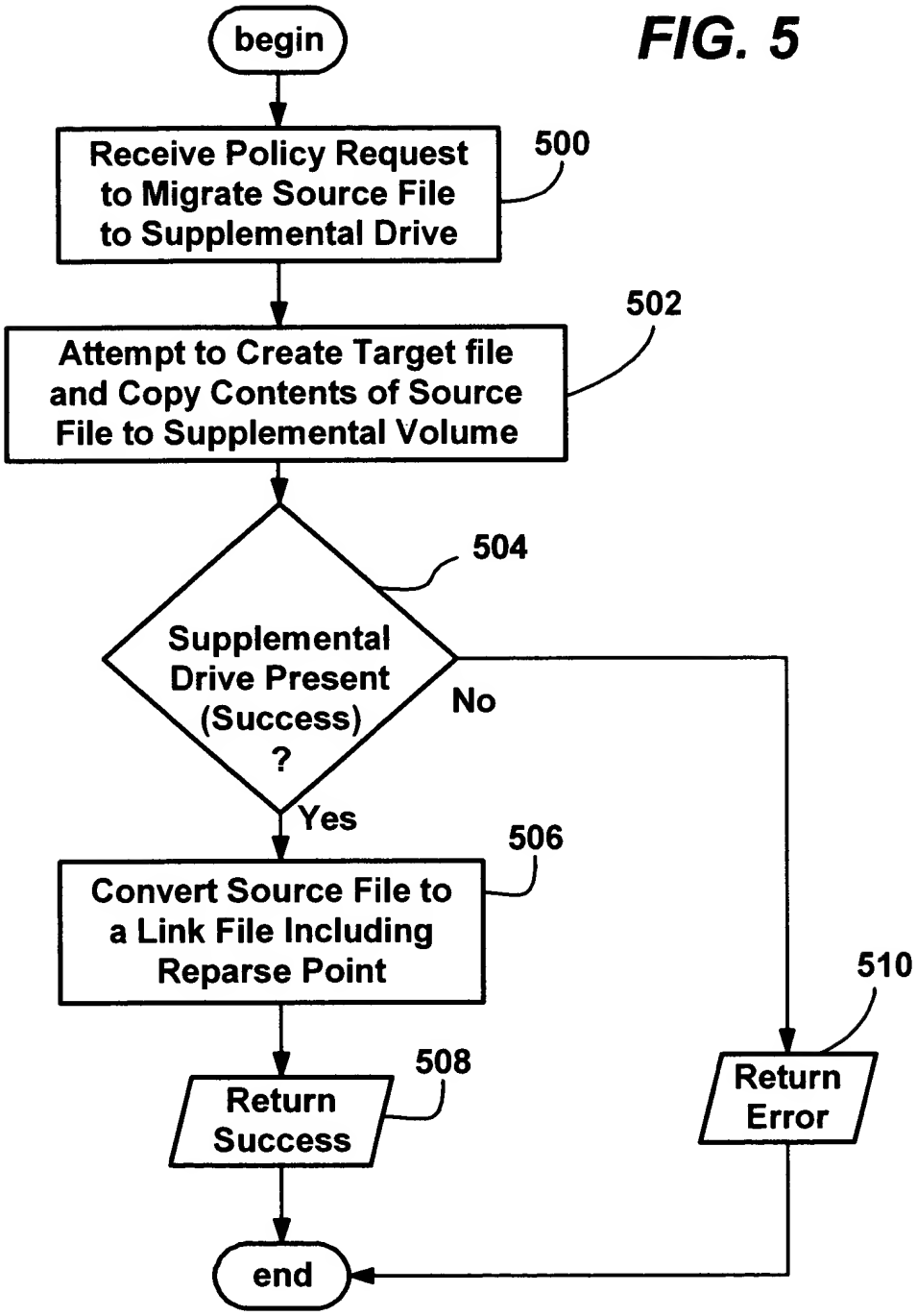

begin
Receive Policy Request to Migrate Source File to Supplemental Drive
500
Attempt to Create Target file and Copy Contents of Source File to Supplemental Volume
502
Supplemental Drive Present (Success) ?
504
No
Yes
Convert Source File to a Link File Including Reparse Point
506
Return Success
508
Return Error
510
end

FIG. 5

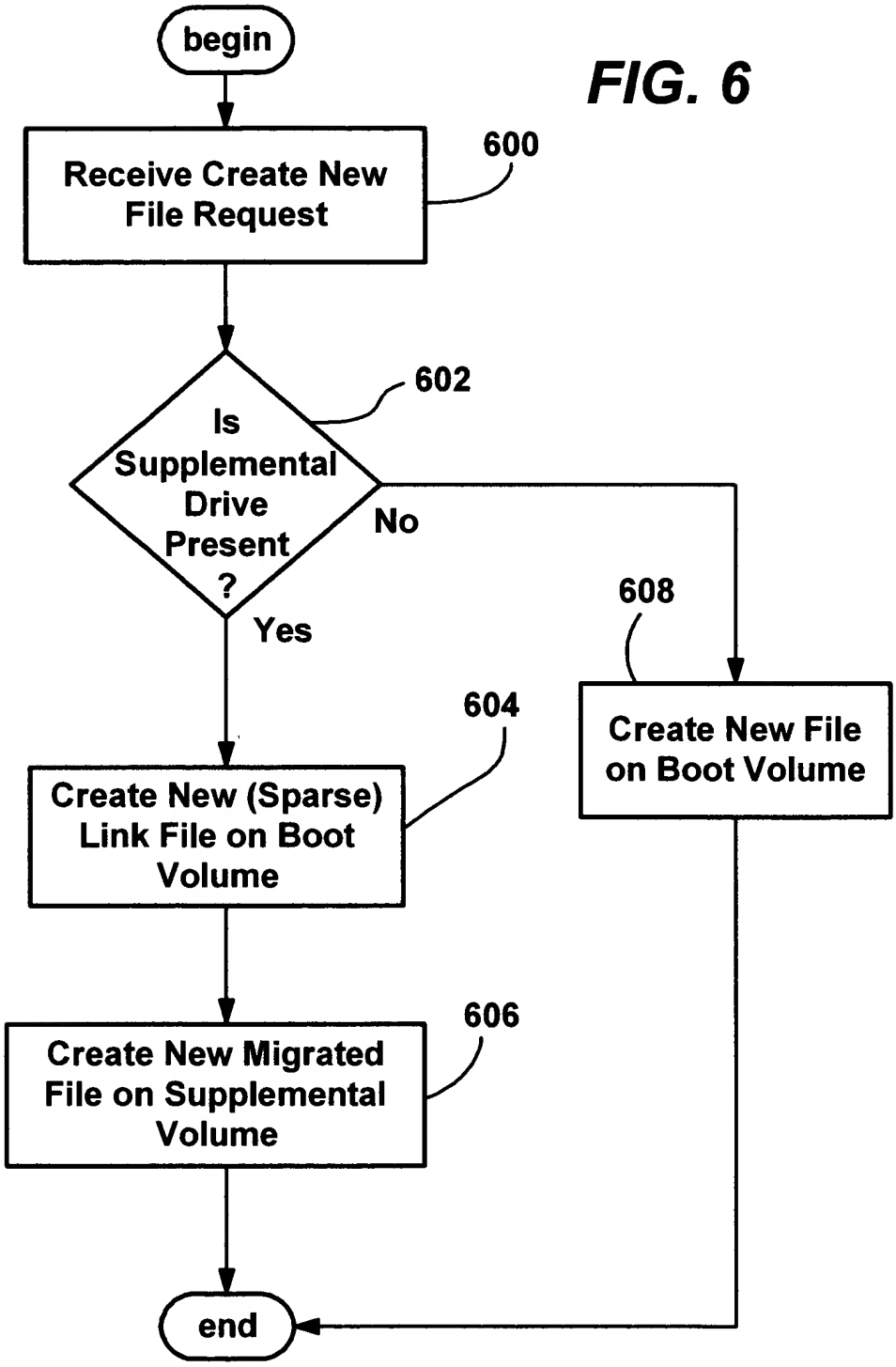

begin
Receive Create New File Request
600
Is Supplemental Drive Present ?
602
No
Yes
608
Create New File on Boot Volume
604
Create New (Sparse) Link File on Boot Volume
606
Create New Migrated File on Supplemental Volume
end

FIG. 6

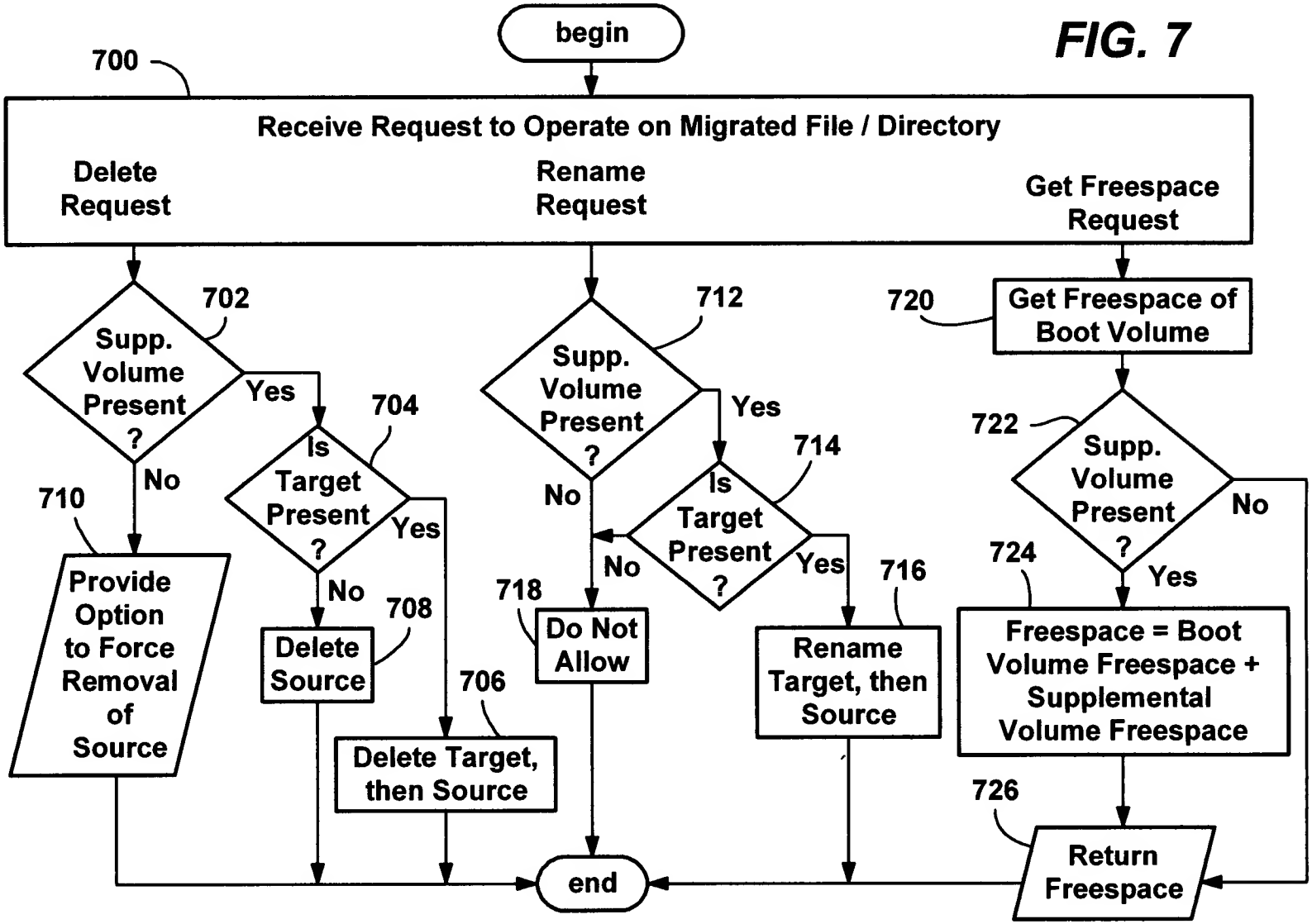

begin
700
Receive Request to Operate on Migrated File / Directory
Delete Request
Rename Request
Get Freespace Request
702
Supp. Volume Present ?
Yes
No
704
Is Target Present ?
Yes
No
710
Provide Option to Force Removal of Source
708
Delete Source
706
Delete Target, then Source
712
Supp. Volume Present ?
Yes
No
714
Is Target Present ?
Yes
No
716
Rename Target, then Source
718
Do Not Allow
720
Get Freespace of Boot Volume
722
Supp. Volume Present ?
Yes
No
724
Freespace = Boot Volume Freespace + Supplemental Volume Freespace
726
Return Freespace
end

FIG. 7